

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A biosensor for determining the concentration of an analyte in a liquid sample, said biosensor comprising:

(a) an electrode support;

(b) an arrangement of electrodes disposed on the electrode support, the arrangement of electrodes comprising at least a working electrode comprising conductive ink, wherein the conductive ink comprises at least one enzyme, at least one mediator, and a polymer separate from the at least one enzyme that provides hydrophilic domains in the conductive ink, wherein the amount of the polymer in the conductive ink is about 1% by weight,

(c) a first conductive track leading from the working electrode to an electrical contact associated with the working electrode, wherein the first conductive track is the same width as the working electrode; and

(d) a second conductive track leading from a second electrode to an electrical contact associated with the second electrode, wherein the second conductive track is the same width as the second electrode,

wherein spacing between the working electrode and the second electrode does not exceed about 200 micrometers.

2. (Canceled).

3. (Previously presented) The biosensor of claim 1, wherein the at least one mediator is selected from the group consisting of organometallic compounds, organic compounds, and coordination compounds with inorganic or organic ligands.

4-5. (Canceled).

6. (Original) The biosensor of claim 1, the biosensor requiring a low volume of sample to trigger an electrochemical reaction.

7 (Canceled).

8. (Original) The biosensor of claim 1, wherein the working electrode has an area of from about 0.5 mm² to about 5 mm².

9. (Original) The biosensor of claim 1, wherein the electrode arrangement further comprises a trigger electrode.

10. (Original) The biosensor of claim 1, wherein the electrode arrangement further comprises a third electrode.

11. (Previously presented) The biosensor of claim 10, wherein the electrode arrangement further comprises a fourth electrode, the fourth electrode having the function of a trigger electrode.

12. (Previously presented) The biosensor of claim 1, further comprising an insulating layer overlying the electrode arrangement and said conductive tracks.

13. (Original) The biosensor of claim 12, wherein a layer of mesh is interposed between the electrode arrangement and the insulating layer.

14. (Previously presented) The biosensor of claim 12, wherein a capillary space is interposed between the electrode arrangement and the insulating layer.

15. (Previously presented) The biosensor of claim 1, further comprising a layer of tape overlying the electrode arrangement and the conductive tracks.

16. (Currently amended) A biosensor for determining the concentration of an analyte in a liquid sample, the biosensor comprising:

(a) a first substrate having two major surfaces;

- (b) a second substrate having two major surfaces;
- (c) a working electrode disposed on one major surface of the first substrate, the working electrode comprising a conductive ink, wherein the conductive ink comprises at least one enzyme, at least one mediator, and a polymer separate from the at least one enzyme that provides hydrophilic domains in the conductive ink, wherein the amount of the polymer in the conductive ink is [[is]] about 1% by weight;
- (d) a second electrode disposed on one major surface of the second substrate;
- (e) a first conductive track leading from the working electrode to an electrical contact associated with the working electrode, wherein the first conductive track is disposed on the first substrate and covers the width of the first substrate;
- (f) a second conductive track leading from the second electrode to an electrical contact associated with the second electrode, wherein the second conductive track is disposed on the second substrate and covers the width of the second substrate; and
- (g) an insulating layer disposed between the working electrode and the second electrode; wherein the major surface bearing the working electrode faces the major surface bearing the second electrode,
wherein spacing between the working electrode and the second electrode does not exceed about 200 micrometers.

17. (Canceled).

18. (Previously presented) The biosensor of claim 16, wherein the at least one mediator is selected from the group consisting of organometallic compounds, organic compounds, and coordination compounds with inorganic or organic ligands.

19-20. (Canceled).

21. (Original) The biosensor of claim 16, the biosensor requiring a low volume of sample to trigger an electrochemical reaction.

22. (Canceled).

23. (Original) The biosensor of claim 16, wherein the working electrode has an area of from about 0.5 mm² to about 5 mm².

24. (Previously presented) The biosensor of claim 16, wherein the biosensor further comprises a trigger electrode.

25. (Previously presented) The biosensor of claim 16, wherein the biosensor further comprises a third electrode.

26. (Previously presented) The biosensor of claim 25, wherein the biosensor further comprises a fourth electrode, the fourth electrode having the function of a trigger electrode.

27. (Original) The biosensor of claim 16, wherein a layer of mesh is interposed between the working electrode and the insulating layer.

28. (Previously presented) The biosensor of claim 16, wherein a capillary space is interposed between the working electrode and the insulating layer.

29. (Previously presented) The biosensor of claim 1, wherein the enzyme is a dehydrogenase.

30. (Previously presented) The biosensor of claim 16, wherein the enzyme is a dehydrogenase.

31. (Currently amended) A biosensor for determining the concentration of an analyte in a liquid sample, said biosensor comprising:
an electrode support;

a first electrically conductive track disposed on the electrode support, the track including a working electrode portion, a contact portion exposed for contact with a meter, and a conductive track portion electrically coupled between the working electrode portion and the contact portion, wherein the working electrode portion contains intermixed conductive ink, wherein the conductive ink comprises an enzyme, mediator and a polymer separate from the at least one enzyme that provides hydrophilic domains in the conductive ink, wherein the amount of the polymer in the conductive ink is about 1% by weight, and wherein the conductive track portion, the working electrode portion, and the contact portion are of the same width; and

a second electrically conductive track including a second electrode portion spaced not more than about 200 micrometers from the working electrode portion of the first electrically conductive track and including a second contact portion exposed for contact with a meter, wherein the second electrically conductive track, the second electrode portion, and the second contact portion are of the same width.

32. (Previously presented) The biosensor of claim 31, wherein the polymer that provides hydrophilic domains in the conductive ink is polyethylene glycol.

33. (Previously presented) The biosensor of claim 1, wherein the polymer that provides hydrophilic domains in the conductive ink is polyethylene glycol.

34. (Previously presented) The biosensor of claim 16, wherein the polymer that provides hydrophilic domains in the conductive ink is polyethylene glycol.

35. (Currently amended) A biosensor for determining the concentration of an analyte in a liquid sample, said biosensor comprising:

- (a) an electrode support;
- (b) an arrangement of electrodes disposed on the electrode support, the arrangement of electrodes comprising at least a working electrode comprising conductive ink, wherein the conductive ink comprises at least one enzyme, at least one mediator, and a polymer separate

from the at least one enzyme that provides hydrophilic domains in the conductive ink, wherein the amount of enzyme is greater than the amount of polymer in the conductive ink,

(c) a first conductive track leading from the working electrode to an electrical contact associated with the working electrode, wherein the first conductive track, the electrical contact, and the working electrode are of the same width; and

(d) a second conductive track leading from a second electrode to an electrical contact associated with the second electrode, wherein the second conductive track, the second electrode, and the electrical contact are of the same width,

wherein spacing between the working electrode and the second electrode does not exceed about 200 micrometers.

36. (Cancelled)